

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: March 30, 2002, 15:55:16 ; Search time 76.19 Seconds

(Without alignments)
949.857 Million cell updates/sec

Title: US-09-357-273a-2

Perfect score: 5139
Sequence: 1 MPARLLLLTLPLGLGIF.....QPYFHPPEPPQPYTPPAL 977

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 522463 seqs, 74073290 residues

al number of hits satisfying chosen parameters: 522463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Listing first 45 summaries

A.Geneseq_1101.*
1: /SIDS2/gcgdata/geneseq/geneseq/AA1980.DAT.*
2: /SIDS2/gcgdata/geneseq/geneseq/AA1981.DAT.*
3: /SIDS2/gcgdata/geneseq/geneseq/AA1982.DAT.*
4: /SIDS2/gcgdata/geneseq/geneseq/AA1983.DAT.*
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6: /SIDS2/gcgdata/geneseq/geneseq/AA1985.DAT.*
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19: /SIDS2/gcgdata/geneseq/geneseq/AA1998.DAT.*
20: /SIDS2/gcgdata/geneseq/geneseq/AA1999.DAT.*
21: /SIDS2/gcgdata/geneseq/geneseq/AA2000.DAT.*
22: /SIDS2/gcgdata/geneseq/geneseq/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	5093	99.1	977	22	AAAM24098	Human EST encoded
2	2078.5	40.4	862	22	AAAB65669	Novel protein kinase
3	470	9.1	91	22	AAAM32548	Peptide #6585 encoded
4	452	8.8	86	22	AAAM34296	Peptide #8333 encoded
5	394	7.7	70	22	AAAM19214	Peptide #5648 encoded
6	394	7.7	70	22	AAAM31867	Peptide #5904 encoded
7	312	6.1	1108	20	AAAY30046	Pancreatic eukaryotic
8	294.5	5.7	971	19	AAWA48896	Candida albicans C
9	294	5.7	718	18	AAAM01537	Bovine ribonuclease
10	294	5.7	741	18	AAAM12702	Human 2-5A-dependent
11	294	5.7	741	20	AAW94679	Human 2-5A-dependent

12	293	5.7	741	16	AAAB82659 Human 2-5A-depende
13	293	5.7	741	16	AAAB82660 Human 2-5A-depende
14	289	5.6	579	22	AAAB48051 Signal transductio
15	288	5.6	741	15	AAAB59076 2-5A-dependent RNA
16	280.5	5.4	647	19	AAAB6576 Protein kinase LIM
17	279.5	5.4	626	21	AAAB35805 Protein involved i
18	278.5	5.4	717	17	AAAB6818 Arabidopsis thalia
19	276	5.4	520	18	AAW30918 Lilly calcium/calmo
20	275	5.4	594	21	AAAG30542 Arabidopsis thalia
21	275	5.4	649	21	AAAG39133 Arabidopsis thalia
22	272.5	5.3	491	22	AAAB48041 Signal transductio
23	268.5	5.2	499	22	AAAU03512 Human protein kina
24	267.5	5.2	550	21	AAAG33471 Arabidopsis thalia
25	267.5	5.2	601	21	AAAG33470 Arabidopsis thalia
26	267.5	5.2	608	21	AAAG33469 Arabidopsis thalia
27	266.5	5.2	586	21	AAAG49798 Arabidopsis thalia
28	266.5	5.2	589	21	AAAG49797 Arabidopsis thalia
29	266	5.2	679	15	AAAB59077 2-5A-dependent RNA
30	266	5.2	679	16	AAAB82661 Partial murine 2-5
31	266	5.2	679	18	AAAM12703 Mouse 2-5A-depende
32	266	5.2	679	20	AAW94680 Human polypeptide
33	265	5.2	510	21	AAAG49366 Arabidopsis thalia
34	265	5.2	519	20	AAAY24020 Mitogen-activated
35	265	5.2	522	21	AAAG49365 Arabidopsis thalia
36	265	5.2	1068	20	AAAY30048 Pancreatic eukaryo
37	265	5.2	1115	20	AAAY30047 Pancreatic eukaryo
38	264.5	5.1	624	22	AAAM1375 Human polypeptide
39	264.5	5.1	639	22	AAAM39589 Human polypeptide
40	264.5	5.1	721	21	AAAB18661 A human regulator
41	264.5	5.1	1230	19	AAAB48861 Candida albicans C
42	264	5.1	978	22	AAAB65604 Novel protein kina
43	263.5	5.1	681	20	AAAY5940 Human PAK4 protein
44	263.5	5.1	681	21	AAAB03967 Signal transductio
45	263.5	5.1	681	22	AAAB20337 Human PAK5 full-le

ALIGNMENTS

RESULT 1	AAAM24098 standard; Protein: 977 AA.
ID	AAAM24098;
AC	AAAM24098;
XX	12-OCR-2001 (first entry)
DT	Human EST encoded protein SEQ ID NO: 1623.
DE	Human, sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
XX	Human, tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW	diagnostics; forensic test; gene mapping; genetic disorder;
KW	biodiversity; gene therapy; nutrition.
XX	Homo sapiens.
OS	MO200154477-A2.
PN	MO200154477-A2.
XX	02-AUG-2001.
PD	02-AUG-2001.
XX	25-JAN-2001; 2001WO-US02687.
PE	25-JAN-2001; 2001WO-US02687.
XX	25-JAN-2000; 2000US-0491404.
PR	17-JUL-2000; 2000US-0617746.
PR	03-AUG-2000; 2000US-0631451.
PR	15-SEP-2000; 2000US-0663870.
XX	(HYSE-) HYSEQ INC.
PA	Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
PI	Cao Y, Dimaac RA, Zhang J, Wehman T;
XX	WPI; 2001-476164/51.

DR N-PSDB: AAH98757.
 XX Isolated polypeptide for treatment of diseases, diagnostics, raising
 PT antibodies and research use -
 XX
 PS Claim 20: Page 1099-1101; 1275pp; English.
 XX
 CC The present invention provides the protein and coding sequences of novel
 CC proteins from a variety of organisms, including human, dog, cat, horse,
 CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
 CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
 CC from the organism of interest. They can be used in diagnostics,
 CC forensics, gene mapping, identification of mutations, to assess
 CC biodiversity and for nutritional purposes. The present sequence is a
 CC protein of the invention.
 XX
 SO Sequence 977 AA:
 99.1%; Score 5093; DB 22; Length 977;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 970; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
 Query Match
 1 MPARLLLLLLLLLPGLGIFGSGTSTVTPETLLPVTSTLDGSHANSKRTGSIKWLKEDP 60
 1 mparlllllllllpglgifgststvtpe...
 61 VLOVPTHEEPALFDPNDGSLYTLGSKNNEGLTKLPETIPELVQASPCRSSDGLTYMGK 120
 61 vlovptheepalfdpndgsl...
 121 KODIYVYIDLTLGKQKQTLSSAFADSLCPSTSLYLGRTEYTTIMYDTRKRLRNATYF 180
 121 kodiyyvyltlgkqkqtlssafadslcpstsl...
 181 DYASLPDEEDGDKSHSVNSGDLVYTVDSGDLVIMQNTASVYAFYVWQREGCLKV 240
 181 dyaslpdeedgdkshsvns...
 241 MHINAVETLRLTFPMSEGEVGRITKMKYFPFKETAKSKLPTLVGVKYSTSLVYASPMV 300
 241 mhinavetlrltfpmsege...
 301 HEGVAVVRGSGTLLPLEGPGTGVITIGDKGECVITPSTDVAFKDPGLSKKNLNLRYNL 360
 301 hegvavvrsgstllplegpgtgvitigdkgecvitp...
 361 LIGHETPLASTKMLERFNNLPRKRENVTPADESEKSFEEVITLVNQTSTNATYYSR 420
 361 lighetplastkmlerfnnlprkre...
 421 DVEEKPAHAPRPARVDSMLKDMATILSTFLIGVAFITTYPLSMHQQOOLQHOQFO 480
 421 dveekpahaprpapr...
 481 KELEKIQLLQOQOQOLRPHRPGDTAQDEGLDTSGRYSESSGTSPTSPPRASNSHLSG 540
 481 kelek...
 541 SSASAGSPSLFEDDDGGDETSVTVVGKISFCPRKDVLGAGEGTIVYVGMGMDNRYAKR 600
 541 ssasagspslfedddggde...
 601 ILPECFSPADEVOLLRSDEHPNVIREFCTEKDRQFOYAIELCAALQOEVEOKDPAH 660
 601 ilpecfspadevollar...
 661 LGLPRTLLQOQTSGLAHLSLNLVHRLKPHNLIISPMNHGKIKAMISDFGLCKTALV 720
 661 lglp...
 721 GRHSRSRSGVGTGEGWAPRLMELSDCKENPTYVDIFSACVFYVVSSESHPRGKSLQ 780
 721 grhsrsrsgvgtgegwapr...

DB 721 grhsfstrsgvpgtegwaprlmelsedckenptyvdlfsagcvfyvlsesghpfgkslq 780
 QY 781 ROANILGACSLDCLHPKHEVDVARELIEKMIAMDPOKRSANDVLRKPFWSLEKOLQ 840
 DB 781 r...
 QY 841 FFQVSDRIEKESLDGPVYKOLERGRAVVKMDRENTITDPLQDRLKFRFYKGGSVRL 900
 DB 841 f...
 QY 901 LRAMNKKHVRRLPAEYRETLGTLPDPEVCYFSTRPPLLANTYRAMELCSHERLPQY 960
 DB 901 lramnkkhvrrelpaeyre...
 QY 961 YFHEPPEQPVPYTPDAL 977
 DB 961 yfheppeqpvtptdal 977
 RESULT 2
 AAB65669
 ID AAB65669 standard; Protein; 862 AA.
 AC AAB65669;
 DT 27-MAR-2001 (first entry)
 DE Novel protein kinase, SEQ ID NO: 197.
 KW Human; mouse; protein kinase; antiarthritis; antisclerotic; osteopathic;
 KW immunosuppressive; cardiant; renal; antiinflammatory; antiasthmatic;
 KW dermatological; antidiabetic; antifertility; gene therapy; vaccine;
 KW immune disorder; cardiovascular disease; neurodegenerative disease;
 KW cancer; autoimmune disorder; stroke; inflammatory bowel disease;
 KW inflammatory pelvic disease; multiple sclerosis; psoriasis.
 OS Homo sapiens.
 PN WO200073469-A2.
 PD 07-DEC-2000.
 PF 26-MAY-2000; 2000WO-US14842.
 PR 28-MAY-1999; 99US-0136503.
 PA (SUGEN-) SUGEN INC.
 PI Plowman GD, Martinez R, Whyte D, Sudersanam S;
 DR WPI; 2001-032161/04.
 DR N-PSDB: AAF44697.
 PT Nucleic acids encoding kinase polypeptides, useful for diagnosing and
 PT treating immune-related diseases and disorders, cardiovascular disease,
 PT neurodegenerative diseases and/or cancers -
 XX
 XX Claim 10: Fig 1; 310pp; English.
 CC The present sequence is a novel protein kinase. The novel protein kinases
 CC and the nucleic acids that encode them may be used in the treatment and
 CC diagnosis of diseases associated with inappropriate kinase expression
 CC such as immune-related diseases and disorders, cardiovascular disease,
 CC neurodegenerative diseases and/or cancers. The nucleic acids and
 CC complementary sequences may also be used as DNA probes in diagnostic
 CC assays. The kinase polypeptides may be used as antigens in the production
 CC of antibodies of kinase expression and activity. Anti-kinase antibodies
 CC and kinase antagonists may also be used to down regulate kinase
 CC expression and activity. Diseases related to kinase expression and
 CC activity include rheumatoid arthritis, atherosclerosis, autoimmune
 CC disorders, complications of organ transplantation, myocardial infarction,
 CC immune disorders, cardiomyopathies, strokes, renal failure,
 CC oxidative-stress related disorders, chronic inflammatory bowel disease,

CC chronic inflammatory pelvic disease, multiple sclerosis, asthma,
 CC osteoarthritis, psoriasis, rhinitis, autoimmunity, diabetes, cancers and
 CC reproductive disorders.

XX Sequence 862 AA:

Query Match 40.4%; Score 2078.5; DB 22; Length 862;
 Best Local Similarity 46.8%; Pred. No. 4.8e-159;
 Matches 464; Conservative 113; Mismatches 254; Indels 161; Gaps 16;

```

QY 2 PARLLLLLTLLPGLGFGSTSTVTLPETLFVSTLDGSLHAYSKRTGSIKWLKEDPV 61
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   |||||
   |||||
Db 10 pwrllgqlqfaailllglsqpvnlrpenlllvstldgslhalskqgdlkwtlrdp 69
   |||||
   |||||
   |||||
QY 62 LQVPHVEPFLDPNDGSIYTGSKNNEGTLKPLPIPELVQASPRSSDGLIYMKK 121
   |||||
   |||||
   |||||
Db 70 legpmvtemafllscdpadsiylgtckqgllmkpftlpehlnhaspcrsdqvlytgrk 129
   |||||
   |||||
   |||||
122 QDIWVIDLTGEGKOOTLSAFADSLCPTSLYLGRTEYITMYDTKTRRLRNATYFD 181
   |||||
   |||||
   |||||
130 qdavrllvdpsesgetcmllte-----gptprlylgrtqylvmhdpapalrwnt----- 180
   |||||
   |||||
   |||||
QY 182 YASLPEDEGDYKMSHFVSGDGLVTVDSGDVLIQNYASPVAYEYVWQREGLRKM 241
   |||||
   |||||
   |||||
Db 181 -----rqlp 184
   |||||
   |||||
   |||||
QY 242 HINNAVETLRITPMSGEGVITKKYF--PKETEA-----KSKLTPLVYGGKSTSLY 294
   |||||
   |||||
   |||||
Db 185 hltlrdtllhltlrlwghl-----rlpasgprdtatlftstldtllmtlykqkeltfy 238
   |||||
   |||||
   |||||
QY 295 ASPSMVEGVAVPRGSTPLPLEGPQTDGVTIGDKECVITPSTPDKFDPGLSKKNKLN 354
   |||||
   |||||
   |||||
Db 239 vskalvthgvalvprgltlpadpdtdevltqvsgeresgstevrlypsgsa----- 292
   |||||
   |||||
   |||||
QY 355 LKNTWLIGHETPLASTAKLERFPNNLPKHRENVIPADSEKKS--FEVNLVDQISEN 413
   |||||
   |||||
   |||||
Db 293 lpsqwlilghelppvltlmtlrhptlsgtaetrcpntcbqafellsl----- 345
   |||||
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   |||||
QY 414 APTVSRDVEKRPAAHAPAPAPV--DSML-----KDMATIIISTPLIGMVAFIITPLSM 468
   |||||
   |||||
   |||||
Db 346 -----str-----eklwdselhpeekrpdsgylgipqdliaaslavllygwlftv----- 390
   |||||
   |||||
   |||||
QY 469 HQOQOLQHOFOFKELEKIQLQOQOQOLPFHP--GDPAODGELDTGSPYSESSGTSP 526
   |||||
   |||||
   |||||
Db 391 -----mrqvkekqetclpadtfahtlsdqst-----hsgas----- 423
   |||||
   |||||
   |||||
527 STSPRASHSLCSGSSASKAGSSPSLEDDDGDETSVVIYVGKISCPKDVOLGHAEGTIV 586
   |||||
   |||||
   |||||
424 -----trsqkrlqspskqaplddpaaeq-----ltvvgklsfnpkdvlgrrgagtlv 471
   |||||
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   |||||
QY 587 YRGMDNDVAVKRLPRCFSPADREYOLLRESDEHPNVIRFCHEKROFOYIAIECA 646
   |||||
   |||||
   |||||
Db 472 frqfegavavklllrecfqlvrevqlqesdthpnvlyfctetrgpqtlylaletcr 531
   |||||
   |||||
   |||||
QY 647 ATLQEVYEQKDFAHGLPEITLQOTTSGLAHLHSLNTVHRDLKPHNLLISMPNAGRIK 706
   |||||
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   |||||
Db 532 aslqeyenpdltdrgslapevvllyqglmsglahlsllhvhdlkpgnllltgdsqglgr 591
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   |||||
   |||||
QY 707 AMISDFGLCKLAVGRHSFRRSGVPTGEGWIAPMLSEDCENPTYVVDIFSACVRY 766
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   |||||
   |||||
Db 592 vvlstficklklpgrcfsfshsglptegwmapellqllppdsptsavdltsagcvfy 651
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   |||||
QY 767 VVSESHFPGKSLOQANILIGACSLDCLHPEKHEDVIARLEIKMIAMPDCKRSANDV 826
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Db 652 vlsqshfpgdslytqanlllgapclahleevndkvaardlvgamlsplpprpsapgv 711
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QY 827 LKHPEFMSLEKLOFQDVDSRIEKESLDGPIVQLEKGRGAVVMDKRENTITDLOTL 886
   |||||
   |||||
   |||||
Db 712 lahpfvwarakqlgtfvgdvsdwlakeseqeprlvraleaagcavvzdnvnehtsmplgtcl 771
   |||||
   |||||
   |||||
QY 887 RKFRTYKGSYRDLRAMRNKKNHRELPAEYRETLGLPDDFVCFYFSRFPHLLAHTRY 946
   |||||
   |||||
   |||||

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Db 772 rkfrsfgtsvrdllravrnkhhylelpvevrgalgqvdpdgvfyfnrprllhthr 831
 QY 947 AMELCSHERLPOPYFHEPPE-----POPPY 973
 |||||
 |||||
 Db 832 amrscaseslfpvy---pdsearrpecpag 860
 |||||

RESULT 3
 AAM32548
 ID AAM32548 standard; Protein: 91 AA.

AC AAM32548;
 AC AAM32548;
 DT 17-OCT-2001 (first entry)

DE Peptide #6585 encoded by probe for measuring placental gene expression.
 DE Probe; microarray: human; placenta; antenatal diagnosis;
 KW genetic disorder.

OS Homo sapiens.

PN WO200157272-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00663.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

DR WPT: 2001-488897/53.

XX Human genome-derived single exon nucleic acid probes useful for

PT analyzing gene expression in human placenta -

PS Claim 27; SEQ ID No 32817; 654pp; English.

CC The present invention relates to single exon nucleic acid probes (SENPs;

CC see AI31315-AI57546). The present sequence is a peptide encoded by one

CC such probe. The probes are useful for producing a microarray for

CC predicting, measuring and displaying gene expression in samples derived

CC from human placenta. The probes are useful for antenatal diagnosis of

CC human genetic disorders.

XX Sequence 91 AA:

Query Match 9.1%; Score 470; DB 22; Length 91;
 Best Local Similarity 100.0%; Pred. No. 1.7e-30;
 Matches 91; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 467 SHHOOQOLQHOFOFKELEKIQLQOQOQOLPFHPGDTADGELDTGSPYSESSGTSP 526
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   |||||
   |||||
Db 1 smhgqgqlqhgqfqlqelkqlqggqgqlrphnpgdtdagdelldtsgpyessgtsp 60
   |||||
   |||||
   |||||
QY 527 STSPRASHSLCSGSSASKAGSSPSLEDDDG 557
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   |||||
   |||||
Db 61 stspashslcsassasakagsspsleddg 91
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   |||||
   |||||

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RESULT 4
 AAM34296
 ID AAM34296 standard; Protein: 86 AA.

```
XX AAM34296;
AC
XX 17-OCT-2001 (first entry)
DT
XX
XX Peptide #8333 encoded by probe for measuring placental gene expression.
DE
XX Probe: microarray; human; placenta; antenatal diagnosis;
KM
XX genetic disorder.
KW
XX Homo sapiens.
OS
XX WO200157272-A2.
PN
XX 09-AUG-2001.
PD
XX
XX 30-JAN-2001; 2001WO-US00663.
PF
XX
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
XX 30-JUN-2000; 2000US-0608408.
XX 03-AUG-2000; 2000US-0632366.
XX 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
XX 04-OCT-2000; 2000GB-0024263.
PA
XX (MOLE-) MOLECULAR DYNAMICS INC.
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI: 2001-488897/53.
DR
XX
XX Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human placenta -
XX
XX Claim 27; SEQ ID No 34565; 654bp; English.
PS
XX
XX The present invention relates to single exon nucleic acid probes (SENPs;
CC see AAI3315-AA157546). The present sequence is a peptide encoded by one
CC such probe. The probes are useful for producing a microarray for
CC predicting, measuring and displaying gene expression in samples derived
CC from human placenta. The probes are useful for antenatal diagnosis of
CC human genetic disorders.
XX
XX Sequence 86 AA:
SQ
Query Match 8.8%; Score 452; DB 22; Length 86;
Best Local Similarity 100.0%; Pred. No. 4.5e-29;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 195 MSHFVNSGDGLVTVDSGDLWLTQNYASPVAFYMQREGLRKVMHINAVETLRILT 254
DB 1 mshfvsngdglvltvdsesgdvltwqnyaspvafyvwqreglrkvmhlnvaveclrylt 60
QY 255 FMSGEVGRITKWKYFPFKETAKSKL 280
DB 61 fmsgevgritkwyfpfketeaskl 86
RESULT 5
AAM19214
ID AAM19214 standard; Protein: 70 AA.
AC
XX AAM19214;
AC
XX 12-OCT-2001 (first entry)
DT
XX
XX Peptide #5648 encoded by probe for measuring cervical gene expression.
DE
XX Probe: human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer.
XX
```

```
OS Homo sapiens.
XX
XX WO200157278-A2.
PN
XX
XX 09-AUG-2001.
PD
XX
XX 30-JAN-2001; 2001WO-US00670.
PF
XX
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
XX 30-JUN-2000; 2000US-0608408.
XX 03-AUG-2000; 2000US-0632366.
XX 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
XX 04-OCT-2000; 2000GB-0024263.
PA
XX (MOLE-) MOLECULAR DYNAMICS INC.
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI: 2001-488901/53.
DR
XX
XX Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human cervical epithelial cells -
XX
XX Claim 27; SEQ ID No 24040; 487bp; English.
PS
XX
XX The present invention relates to human single exon nucleic acid probes
CC (SENPs; see AAI10068-AA128459). The present sequence is a peptide encoded
CC by one such probe. The SENPs are derived from human HeLa cells. The SENPs
CC can be used to produce a single exon microarray, which can be used for
CC measuring human gene expression in a sample derived from human cervical
CC epithelial cells. By measuring gene expression, the probes are therefore
CC useful in grading and/or staging of diseases of the cervix, notably
CC cervical cancer.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 70 AA:
SQ
Query Match 7.7%; Score 394; DB 22; Length 70;
Best Local Similarity 98.6%; Pred. No. 1.6e-24;
Matches 69; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 908 KHHYRELPAEYRETLGLPDDFCVTSRFPHLAHTYRAMELCSHERLFPQYFHEPPE 967
DB 1 khhyrelpaeyreltgsldpdcvfysrfphllahtyramelcshehrlfqpvyfheppe 60
QY 968 POPPYTPDAL 977
DB 61 pppvtpdai 70
RESULT 6
AAM31867
ID AAM31867 standard; Protein: 70 AA.
AC
XX AAM31867;
AC
XX 17-OCT-2001 (first entry)
DT
XX
XX Peptide #5904 encoded by probe for measuring placental gene expression.
DE
XX Probe: microarray; human; placenta; antenatal diagnosis;
KW genetic disorder.
XX
XX Homo sapiens.
OS
XX WO200157272-A2.
PN
XX 09-AUG-2001.
PD
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XX 30-JAN-2001; 2001MO-US00663.
PF
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-FEB-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-488897/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human placenta -
XX
XX Claim 27: SEQ ID NO 32136; 654bp; English.
XX
XX The present invention relates to single exon nucleic acid probes (SEND:
XX see AAI31315-AA157546). The present sequence is a peptide encoded by one
XX such probe. The probes are useful for producing a microarray for
XX predicting, measuring and displaying gene expression in samples derived
XX from human placenta. The probes are useful for antenatal diagnosis of
XX human genetic disorders.
XX
XX Sequence 70 AA:
SQ
Query Match 7.7%; Score 394; DB 22; Length 70;
Best Local Similarity 98.6%; Pred. No. 1.6e-24;
Matches 69; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 908 KHHYRELPAEYRETLGLPDDFCYFSTRPFLHATYRAMELCSHERLFOPIYFHEPPE 967
DB 1 khhyrelpaerelglspddfcyfstsrphllahlyramelcshehlfpqyfhheppe 60
QY 968 PQPYTPDAL 977
DB 61 pqpytpdal 70
RESULT 7
AAI30046
AAI30046 standard; Protein; 1108 AA.
AAI30046:
XX
XX 04-OCT-1999 (first entry)
XX
XX Pancreatic eukaryotic translation initiation factor-2 alpha kinase.
XX
XX Pancreatic eukaryotic translation initiation factor-2 alpha kinase; PEK;
XX eukaryotic translation initiation factor-2 alpha; pancreatic islet;
XX drug discovery; drug development.
XX
XX Rattus sp.
XX
XX Key Location/Qualifiers
XX Modified-site 20 /note="consensus N-myristylation site"
XX Modified-site 44 /note="consensus N-myristylation site"
XX Region 517..532 /note="hydrophobic region; potential transmembrane
XX region"
XX
XX W09938994-A1.
XX
XX 05-AUG-1999.
PD

XX 12-JAN-1999; 99WO-US00623.
PF
XX 25-NOV-1998; 98US-0109992.
PR 29-JAN-1998; 98US-0073031.
XX
XX (ELIL) LILLY & CO ELI.
XX
XX Shl Y;
XX
XX WPI; 1999-469338/39.
XX
XX N-PSDB; AAX86563.
XX
XX Novel rat and human pancreatic eukaryotic translation initiation
XX factor 2alpha kinase useful for drug discovery and development
XX
XX Claim 7; Page 46-50; 77bp; English.
XX
XX The present sequence represents a pancreatic eukaryotic translation
XX initiation factor-2 alpha kinase (PEK). PEK phosphorylates eukaryotic
XX translation initiation factor-2 alpha. PEK polynucleotides was
XX cloned from pancreatic islet DNA libraries. The PEK nucleic acids
XX and protein can be used as tools for drug discovery and development.
XX
XX Sequence 1108 AA:
SQ
Query Match 6.1%; Score 312; DB 20; Length 1108;
Best Local Similarity 18.8%; Pred. No. 7.2e-16;
Matches 212; Conservative 186; Mismatches 379; Indels 348; Gaps 51;
QY 2 PARLLLLTLPLP-----GLGIFGS-TSTVFLP----- 29
DB 7 prprllllllflllgaagisavararsllaptsdafilgaaaptsaarparvataert 66
QY 30 -----ETLLEFSTLDGSLHAY-SKRTGSIKWTLK 57
DB 67 vedaalpaasgegesratesdddelrprgrslvlsicldgrlaaldaenhykqkwld 126
QY 58 EDPVLQPTVHEDEPAFLD-----PM-DGSLTYLTKGKNNEGTLKLPFTTPELVQASPCSS 112
DB 127 vsgsgslvsslskpevgfknmlpeldgdlfq-wdrdresneaypfvteslless-ykfg 184
QY 113 DGIILYMGKKODIWIYIDLTGEGKOOTLSSAF-----ADSLCPSTSLYLRTETITMY 166
DB 185 dadvlvggksltlyglisaysg-kilyicsalgcrwdsdemeedllllqrtqktvav 243
QY 167 DTKTRRLRMN-----ATYFDYASLPEDEGDYKMSH-----F 198
DB 244 gprsgsekwnfsyghfelrlypdmctragflsttklgknkedsklisdveeqdvdyk 303
QY 199 VNSGDGLVTVYDSESDVLTONTASPVAVFYWMOREGLRKVMHINAVETLRYITFMSG 258
DB 304 ysvadwkvmatskkgirlweygfctpiasawl-vrdg-kvipslfddt----- 351
QY 259 EVGRTTKMKYPPKPT-----EAKSKLPTIYVKYTSLSYASMSM----- 299
DB 352 f-----sytaanevledeediveaagatensylygmrygqlylgssvrvsekfptip 403
QY 300 -----VHEGVAVVPRGSR--LPLEGPQTDGVTIG--DKGECVTPS--TPVKFPGLSK 349
DB 404 kalesvngesatiprlptlkwpkplhsptbrylvsdofdcclndkysheysngalsi 463
QY 350 NKLNLRYWLLIGHETPLSASTKMLERFPNNLPKREHNVIPADS-----EKKSFEV 403
DB 464 lgyrydngylylpykrrern-krtctqivrfids-physkniirkkpdlillhwwkeifgti 521
QY 404 INLVQGTSEMAPTYSRNV-----EKKPAHAPARPAVPDSMKDQATITLITFLFLG 456
DB 522 llicivat-----tlivrtllfhpqhrqkesetcqteskydsvsadnsdmsndkhsy 576
QY 457 WVAFLIT-----YPL-----SMHQOQ 472

